# Healthcare Twitter Analytics Sentiment Analysis: compare two approaches

```
# see http://jeffreybreen.wordpress.com/2011/07/04/twitter-text-mining-r-slides/
# setup
# ----
source("score.sentiment.R")
hu.liu.pos = scan('positive-words.txt', what='character', comment.char=';')
hu.liu.neg = scan('negative-words.txt', what='character', comment.char=';')
pos.words = c(hu.liu.pos, 'upgrade')
neg.words = c(hu.liu.neg, 'wtf', 'wait', 'waiting', 'epicfail', 'mediocrity')
# examples
# =======
sample = c("You're awesome and I love you",
           "I hate and hate and hate. So angry. Die!",
           "Impressed and amazed: you are peerless in your achievement of unparalleled mediocri
ty.")
result = score.sentiment(sample, pos.words, neq.words)
result$score
```

```
## [1] 2 -5 4
```

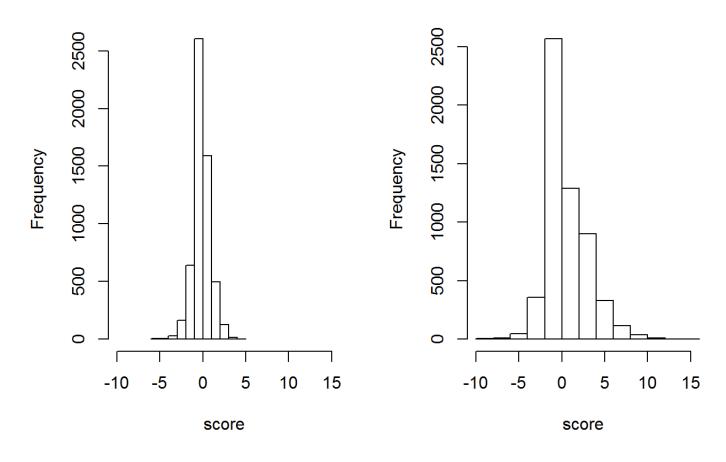
```
## [1] -4 5
```

```
##
           score AFINN
         5675.00 5675.00
## n
            0.00
                   0.00
## nNA
## min
           -6.00
                  -9.00
            0.34
## mean
                   1.21
## median
            0.00
                   0.00
## stdev
            1.04
                   2.34
## skew
            -0.02
                   0.86
## npskew
            0.33
                   0.52
## kurtosis
            1.96
                   2.05
            5.00
## max
                  16.00
```

```
# plot the two sentiment distributions
par(mfrow=c(1,2))
hist(scores$score, main='Breen Sentiment Scores', xlab='score', ylab='Frequency', xlim=c(-10,15))
hist(scores$AFINN, main='AFINN Sentiment Scores', xlab='score', ylab='Frequency', xlim=c(-10,15))
```

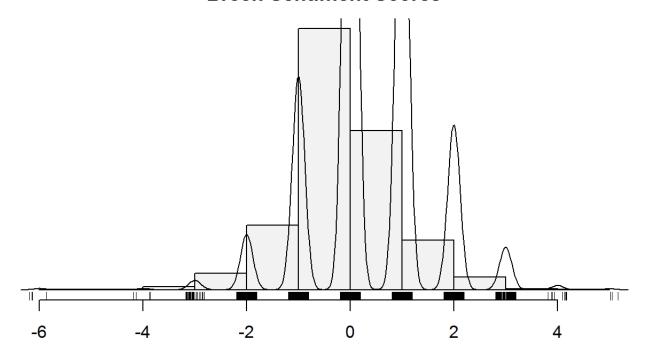
### **Breen Sentiment Scores**

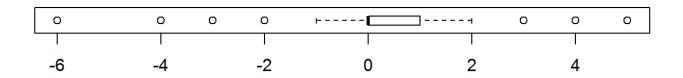
### **AFINN Sentiment Scores**



hist.density.box(scores\$score,main='Breen Sentiment Scores')

### **Breen Sentiment Scores**





hist.density.box(scores\$AFINN,main='AFINN Sentiment Scores')

## **AFINN Sentiment Scores**

